



**(57) Abstract:** The invention relates to a heat-exchanging device comprising a substrate (1) having a plurality of regularly arranged channels (4) extending through the substrate (1), and webs (12) protruding from the upper side (3) of the substrate (1), the maximum height (RH) of said webs corresponding to half of the length (DL) of the channels (4) in the direction of flow (10). A device (9) for producing an oriented liquid flow, preferably an air flow, ensures that both sides (2, 3) of the substrate (1) are tangentially crossed by the flow. The webs (12), used as flow obstacles for producing turbulence zones (TL), are oriented perpendicularly to the direction of flow (10).

The present invention relates to a heat-exchanging device according to the preamble of Claim 1.

Such a heat-exchanging device is known from DE 39 29 004 A1. This publication shows a heat exchanger with double plates having on inside and outside surfaces profiles that are

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